

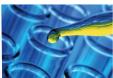
NASA's Impact in New York: A Tech Transfer Perspective

You know that NASA studies our planet, our sun, the solar system, and the Universe. But did you know about the space program's economic impact here on Earth?













In 2011, NASA invested **\$80 million** in the state of New York.

Since 2001, NASA's SBIR/STTR Program has invested nearly \$40 million in 47 New York companies and more than \$1.2 billion nationwide.

How NASA's SBIR/STTR Program Benefits New York

NASA is committed to moving technologies and innovations into the mainstream of the U.S. economy, and the Small Business Innovation Research/Small Business Technology Transfer (SBIR/STTR) program helps fulfill this goal.

SBIR/STTR stimulates technological innovation by encouraging small, high-tech companies—particularly minority and disadvantaged businesses—to partner with NASA to help meet its research and development needs in key technology areas. At the same time, this program strengthens small companies by enabling them to bring cutting-edge new products into the U.S. economy.

The list to the right highlights New York businesses that received SBIR/STTR contracts from NASA since 2001. (Visit http://sbir.nasa.gov for more information on the SBIR/STTR program.)

NASA SBIR/STTR Companies in New York

ACENT Laboratories, LLC.....Bohemia

Agave BioSystems, Inc	Ithaca
AMBP Tech Corporation	
Amseta Corporation	
Anvik Corporation	Hawthorne
Applied Biomathematics	
Applied Science Innovations, Inc	
Atair Aerospace, Inc	
Avant Analysis Technology	
Aymont Technology, Inc.	
Bethpage Technologies, Inc.	Dix Hills
Bettergy Corporation	Croton-on-Hudson
Ceralink, Inc	
Clear Science Corporation	
CompSys Technologies, Inc	
Cox & Company, Inc.	
Dimension Technologies, Inc	
Final Frontier Design	
Free Form Fibers, LLC	
GrammaTech, Inc	
Honeybee Robotics	
HYPRES, Inc.	
Impact Technologies, LLC	
Innova Products Corporation	
Innovative Dynamics, Inc.	
	Ithaca
Innovative Dynamics, Inc	Ithaca Troy
Innovative Dynamics, Inc	Ithaca Troy North Amityville
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How NASA Spinoffs Benefit New York

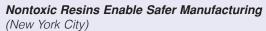




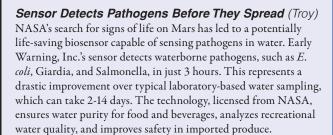
In high-precision optics, aspheres enable higher quality images, but they have traditionally been time-consuming and expensive to manufacture. Under a NASA SBIR contract, QED Technologies has developed an interferometer that enables aspheres to become more integrated into optical devices. QED's interferometer is in such high demand that it has remained in a sold-out state since being introduced in 2009.



A NASA technology originally developed to keep astronauts comfortable and cool while inside a spacecraft is now being marketed as an automotive air conditioning product. The product, marketed by IDQ, Inc., replaces lost refrigerant and oil in automotive air conditioners to restore effective cooling. Thanks to NASA, nearly anyone can safely, effectively, and affordably recharge a vehicle's air conditioning unit.



UBE America, Inc. has licensed a NASA polyimide matrix resin for use in aerospace manufacturing. The resin is strong, tough, lighter than metal alloys, and resists microcracks that result from temperature fluctuations. Because it is nontoxic, the resin creates a safer environment for workers. UBE America is currently partnering with major aerospace companies on high-temperature applications for aircraft.

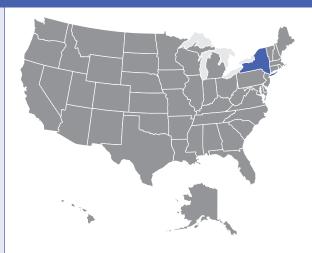


Advanced Sensors Boost Near Infrared Imaging (Brooklyn)

Amplification Technologies, Inc. (ATI), a subsidiary of PowerSafe Technology, received funding to help NASA establish its interplanetary communications networks. Through this partnership, ATI was able to develop a small, lightweight sensor with a fast response time, high voltage, thermal stability, and low noise. The commercial product has potential applications in satellite communications, data transmission from unmanned aerial vehicles, night vision goggles, near infrared cameras, and laser-based glucose monitoring.

NASA Fabrics Enhance Architecture Around the World (Amherst)

A fabric originally developed for Apollo space suits is now being used in major transportation hubs, sports facilities, convention centers, and other landmark structures throughout the world. Birdair, Inc. produces fiberglass fabric—ideal for large-scale, permanent roofs—that is lightweight, durable, non-flammable, and lasts up to 10 years longer than conventional roofing materials. NASA's fiberglass fabric has enabled Birdair to grow from a small company established in its founder's kitchen to a multimillion-dollar specialty contractor today.



NASA actively seeks partnerships with U.S. companies that can license NASA innovations and create "spinoffs" in areas such as health and medicine, consumer goods, transportation, renewable energy, and manufacturing. When businesses leverage NASA technologies to develop new products, it not only benefits the regional economy, but significantly strengthens the nation's competitiveness in the global marketplace.

NASA's centers across the country have helped 145 New York companies develop revolutionary spinoff technologies.

Learn more about how NASA innovations benefit the public in *Spinoff*, an annual publication that highlights NASA's most significant technology transfer successes. (Available at: http://www.sti.nasa.gov/tto)

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